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May 13, 2011

Project No.: 103-87305

Mr. Cal Lundberg, Supervisor  
Iowa Department of Natural Resources  
502 E. 9th Street  
Des Moines, Iowa 50319-0034

RCRA



555474

**RE: FORMER ELECTROLUX MANUFACTURING FACILITY  
601 EAST CENTRAL STREET  
JEFFERSON, IOWA  
INCIDENT NO.: 050311-AHB-0948**

Dear Mr. Lundberg:

In follow-up to our conversation on May 3, 2011, Golder Associates Inc. (Golder), on behalf of Electrolux Home Products, Inc. (Electrolux), is submitting this letter report summarizing Site operational history, geologic and hydrogeologic information, and the findings of our recent soil and groundwater sampling activities at the former Electrolux manufacturing facility located at 601 East Central Street in Jefferson, Iowa (Site) (see Figure 1). The properties surrounding the Site are shown in Figure 2.

## BACKGROUND

The approximately 20.75 acre Site is improved by an approximate 75,542 square-foot single-story former manufacturing/office/warehouse building built in 1960, with additions constructed in 1973, 1980, 1988, and 1992 (see Figure 3). The building, located in the northwest corner of the Site, is currently vacant and scheduled for demolition later this year. The area of the Site formerly used for manufacturing encompasses approximately 40 percent of the property owned by Electrolux. The remainder of the property, south and west of the Site building, is leased for agricultural use as shown in Figure 2.

Electrolux's predecessor, White Consolidated Industries, developed the Site in 1960 to manufacture dishwasher motor transmissions. Historical activities at the Site included machining, heat treating, degreasing, metal fabrication, powder coating, warehousing, and testing of washing machine transmissions. Electrolux closed the plant in March 2011 and has since decommissioned and removed the manufacturing equipment and other items from the Site buildings.

Site records indicate that Electrolux used five underground storage tanks (USTs), registered with IDNR (registration No.: 198603490), to store petroleum products including cooling oil, used oil, and hydraulic oil. Electrolux removed and/or closed in place all five USTs in the mid to late 1980s and 1990. On January 11, 1991, Electrolux received a No Further Action letter from IDNR regarding the UST removal activities performed in 1990. There are no records indicating a release occurred from the closed-in-place and/or removed USTs.

According to Site personnel, the facility had two former aboveground degreasers and one solvent aboveground storage tank (AST). The solvent AST was located in a small building located on the western side of the main Site building. Multiple machine pits and trenches exist within the former manufacturing area.

According to the Greene County Assessor's Office, the Site is currently referenced as Parcel Pin # 11-05-400-007 and is currently serviced by municipal sewer, natural gas (propane tank), electricity, telephone,

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and municipal water as shown in Figure 3. The building was constructed with a slab-on-grade concrete floor, with sub-grade machine pits and trenches, metal walls, and a metal truss roof.

Properties immediately adjacent to the Site include (see Figure 2):

- North: East Central Street and further north, agricultural fields.
- East: Agricultural fields.
- West: A railroad spur servicing a feed grain company located north of the Site and further west, North Cedar Street containing a few residential properties.
- South: Railroad tracks and agricultural fields.

## SITE ASSESSMENT ACTIVITIES

In conjunction with the closure of the manufacturing operations, Electrolux commissioned Golder to review the Site history and develop a preliminary assessment plan to evaluate subsurface conditions downgradient and exterior of the Site building. Golder performed the assessment scope of services in two phases including:

1. Groundwater Flow Direction Assessment: Golder advanced ten boreholes and installed nine monitoring wells to assess groundwater flow direction across the developed portion of the Site in November and December 2010.
2. Soil and Groundwater Assessment: Golder assessed soil and groundwater conditions downgradient and exterior of the Site building in March and April 2011.

A summary of the field procedures and assessment findings are provided below.

## GROUNDWATER FLOW DIRECTION ASSESSMENT

### Boring Program

Golder commissioned Matrix Environmental, LLC of Osseo, Minnesota (Matrix) to advance ten soil borings (designated MW-1 through MW-9 and boring GP-01) at the locations shown in Figure 3. Matrix used a truck-mounted Geoprobe® Direct Push Technology (DPT) rig to push and pneumatically hammer one soil boring (GP-01) to an approximate depth of 30 feet below ground surface (ft bgs) to develop a lithologic profile and the remainder of the borings (MW-1 through MW-9) to depths ranging from 9 to 15 ft bgs for monitoring well installation. Golder collected continuous soil samples from the ground surface or approximate base of the asphalt pavement, in 5-foot intervals, to the bottom of each boring. Following the lithologic description, Matrix abandoned GP-01 using a Portland cement/bentonite grout. The soil boring logs are provided in Appendix A.

Golder collected composite soil samples from each five-foot sample interval, placed the soil samples in 16-ounce glass containers, covered the jars with aluminum foil, and allowed the samples to equilibrate to approximately 60 to 70 degrees Fahrenheit to permit volatilization of volatile organic compounds (VOCs), if present. Golder field screened the soil samples for the presence of VOCs using a Photovac Microtip organic vapor analyzer (OVA) equipped with a photoionization detector (PID) with a 10.6 eV lamp. Golder calibrated the PID in accordance with the manufacturer's specifications to a 100 parts per million (ppm) isobutylene reference gas at least once a day. Golder did not detect any VOCs in the soil samples and therefore, did not submit any soil samples for laboratory analysis.

### Monitoring Well Installation and Groundwater Flow Determination

Matrix installed monitoring wells in soil borings MW-1 through MW-9 at the locations shown in Figure 3. Matrix constructed the wells using 1.5-inch diameter polyvinyl chloride (PVC) pipe with five feet of 0.01-inch slotted pre-packed screen. Matrix completed the monitoring wells by adding sand into the borehole

and placing an approximate two-foot-thick bentonite seal to reduce the potential for impacts from surface runoff. The monitoring well construction details are summarized in Table 1 and the borehole/monitoring well logs area provided in Appendix A.

Golder commissioned JEO Consulting Group, Inc. (JEO) of Carroll, Iowa, a licensed surveyor, to survey top of casing elevations and ground surface elevation of the nine newly installed monitoring wells and the ground surface at GP-1. The JEO survey is based on the Iowa State Plane North 1401 Coordinate System and the vertical datum is North American Vertical Datum (NAVD) 88. JEO personnel surveyed the points of interest to a vertical accuracy of 0.01 foot. Golder used these data in its evaluation of Site groundwater flow direction.

Golder measured depth-to-water levels relative to the top-of-casing in each of the newly-installed wells approximately 12 days after well installation on December 3, 2010. During installation of the monitoring wells, Golder noted that recharge into the monitoring wells was very slow (e.g., in some wells only a few inches of water entered the well over a three-day period). Golder calculated the groundwater elevation measured at each monitoring well by subtracting the measured depth to groundwater from the elevation of the top-of-casing in each respective well. The water table elevation measurements are provided in Table 2.

### **Geologic and Hydrogeologic Conditions**

During advancement of the 10 soil borings, Golder observed a soft to stiff, light olive gray to gray/dark gray sandy clay, with trace gravel. The sandy clay had intermittent thin (i.e. 0.25 to 1-inch) sand seams at several locations. The moisture content of the clay was dependent on the density of the clay (i.e., the softer the clay the higher the water content). Golder did not encounter bedrock during this assessment program.

Figure 4 presents an interpreted groundwater elevation contour map based on water levels measured in March 2011 which indicates that shallow groundwater flows towards the south.

## **SOIL AND GROUNDWATER ASSESSMENT**

### **Boring Program**

Golder commissioned Matrix to advance 15 additional soil borings (designated MW-10 through MW-23 and boring MW-21A) at the locations shown in Figure 3 in March 2011. Matrix and Golder personnel used similar boring and well installation methods as described above.

Golder selected one soil sample, just above the water table, from each boring along the southern manufacturing boundary (MW-10 through MW-14) for laboratory analysis. Golder submitted the soil samples to TestAmerica in Cedar Falls, Iowa for analysis of VOCs using EPA Method 8260B, Total Extractable Hydrocarbons (TEH) using Iowa Method OA-2, Total Petroleum Hydrocarbons (TPH) gasoline using Iowa Method OA-1, oil and grease using EPA Method 1664A, and eight Resource Conservation and Recovery Act (RCRA) metals (i.e., arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver) using EPA Methods 6010B, 7060S (arsenic), and 7471A (mercury).

Golder collected continuous soil samples from each boring advanced adjacent to the Site building for laboratory analysis (i.e., approximately five soil samples per boring – MW-15 through MW-23 and MW-21A). Golder submitted the soil samples to TestAmerica for the same analyses listed above. One soil sample from each boring was also analyzed for polychlorinated biphenyls (PCBs) using EPA Method 8082. Matrix abandoned boring MW-21A using a Portland cement/bentonite grout after collecting the soil samples.

### **Monitoring Well and Groundwater Monitoring Program**

Matrix installed monitoring wells in soil borings MW-10 through MW-23 at the locations shown in Figure 3. Matrix constructed the wells using 1.5-inch diameter PVC pipe with ten feet of 0.01-inch slotted pre-

packed screen. Matrix completed the monitoring wells by adding sand into the borehole and placing an approximate one-foot-thick bentonite seal to reduce the potential for impacts from surface runoff. The monitoring well construction details are summarized in Table 1 and the borehole/monitoring well logs area provided in Appendix A.

After allowing groundwater to equilibrate for approximately two weeks following well installation, Golder collected groundwater samples from the 12 newly-installed monitoring wells and from the four previously-installed monitoring wells located along the southern manufacturing boundary (MW-5, MW-6, MW-7, and MW-9). Golder was unable to measure water levels or collect groundwater samples from monitoring wells MW-10 and MW-14 due to ponded water over the wells. After measuring the water level in each accessible well, Golder used a peristaltic pump and dedicated polyethylene and silicon tubing to purge and collect groundwater samples from the wells using low-flow sampling techniques. Golder monitored water quality parameters during well purging activities including temperature, specific conductivity, pH, and dissolved oxygen. Groundwater samples were collected following the stabilization of field water quality parameters (to within 10 percent of the previous two readings) or after groundwater recharged the well.

Golder submitted the groundwater samples to TestAmerica for analysis of VOCs using EPA Method 8260B and for TEH using Iowa Method OA-2. Golder also collected one groundwater sample from monitoring well MW-21 for analysis of PCBs and submitted trip blanks for VOC analysis. The laboratory analytical report is presented in Appendix B.

Golder commissioned JEO to survey top of casing elevations and ground surface elevation of the 14 newly-installed monitoring wells and the ground surface at MW-21A.

## Subsurface Assessment Findings

### Soil Analytical Results

The soil analytical results are provided in Table 3. Key findings include the following:

- No TEH, VOCs, or TPH gasoline constituents were detected in soil samples collected from the soil borings advanced along the southern manufacturing boundary of the Site (MW-10, MW-11, MW-12, MW-13, and MW-14) at concentrations above the laboratory reporting limits. Certain metals were detected at concentrations consistent with background conditions and oil and grease concentrations at less than 170 milligrams per kilogram (mg/kg).
- Mercury was detected at concentrations just above the laboratory reporting limits in soil samples collected from MW-16, MW-20, MW-21, MW-21A, MW-22, and MW-23. Arsenic, barium, chromium, and lead were detected at concentrations above the laboratory reporting limits at concentrations consistent with background concentrations.
- TPH as gasoline was detected in soil samples collected from soil borings MW-19, MW-21, MW-21A, and MW-22 at concentrations above the laboratory reporting limits. The highest TPH gasoline concentrations were detected in samples collected from the five to ten foot depth interval. The TPH gasoline concentrations decreased with depth and were non-detect in samples collected below 10 ft bgs with the exception of MW-21 (15.3 mg/kg) at 10-12 ft bgs.
- Oil and grease were detected at concentrations above the laboratory reporting limits in most of the soil samples and detected at the highest concentrations (i.e., above 1,000 mg/kg) in soil samples collected from borings MW-17, MW-21, MW-21A, and MW-23.
- TEH was detected at concentrations above 1,000 mg/kg in soil samples collected from borings MW-17, MW-21, MW-21A, and MW-22. The TEH concentrations decreased with depth to below laboratory reporting limits or one to two orders of magnitude lower than the concentrations reported for the preceding interval.

- Certain chlorinated volatile organic compounds (CVOCs) including trichloroethene (TCE) and 1,1,1 trichloroethane (1,1,1-TCA) were detected in all the soil borings located adjacent to the south side of the Site building. The highest detected concentrations of TCE and 1,1,1-TCA were located on the southeastern corner of the manufacturing building (i.e., MW-15, MW-16, MW-17, MW-18, and MW-19).
- PCBs were not detected in any of the analyzed soil samples at concentrations above the laboratory reporting limits.

### Groundwater Analytical Results

The groundwater analytical results are provided in Table 4. Compounds detected at concentrations above Environmental Protection Agency's (EPA) Drinking Water Maximum Contaminant Levels (MCLs) are highlighted. Figure 5 illustrates detected concentrations of TEH and TCE in Site groundwater. Key findings include the following:

- No VOCs were detected in groundwater samples collected from the monitoring wells installed along the southern manufacturing boundary of the Site (MW-5, MW-6, MW-9, MW-11, and MW-13) at concentrations above the laboratory reporting limits with the exception of MW-7 where 1,1,1-TCA and 1,1-dichloroethane (1,1-DCA) were detected at concentrations above the laboratory reporting limits but below the MCLs.
- Elevated TEH concentrations were detected above 1,000 micrograms per liter (ug/L) in groundwater samples collected from monitoring wells MW-9, MW-19, MW-21, MW-22, and MW-23.
- TCE was detected at concentrations above the MCL of 5 ug/L in groundwater samples collected from monitoring wells along the southeastern corner of the Site building (i.e., MW-15, MW-16, MW-17, MW-18, MW-19, and MW-20).
- Other CVOCs detected at concentrations above their respective MCLs include:
  - 1,1,2-dichloroethane;
  - 1,1-dichloroethene;
  - 1,2-dichloroethane;
  - Vinyl chloride;
  - Cis-1,2-dichloroethene; and
  - Tetrachloroethene (PCE).
- PCBs were not detected in the groundwater sample collected from MW-21 at concentrations above the laboratory reporting limits.

### SUMMARY

Golder has completed a soil and groundwater assessment at the former Electrolux manufacturing facility in Jefferson, Iowa. A summary of the key findings includes:

- The Site is underlain by a soft to stiff, light olive gray to gray/dark gray sandy clay, with trace gravel. The sandy clay has intermittent thin (i.e. 0.25 to 1-inch) sand seams to a depth of at least of 30 feet (the deepest boring on Site). Bedrock was not encountered.
- Site groundwater flows to the south. Given the low permeability soils (as evidenced by slow groundwater recharge into Site monitoring wells) and the relatively shallow hydraulic gradient, groundwater flow velocities are expected to be low.
- Golder did not detect any impacted soil along the southern manufacturing boundary.

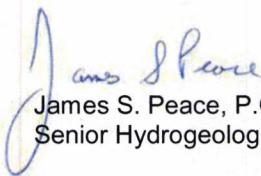
- Petroleum and CVOC-impacted soil and groundwater appear to be limited to the developed portion of the Site. Golder did not detect any VOCs or petroleum compounds above the MCLs and/or laboratory reporting limits in the groundwater samples collected from the monitoring wells installed along the southern manufacturing boundary of the Site. Agricultural fields, owned by Electrolux, are located south and east of the developed portion of the Site. Due to the groundwater quality along the southern manufacturing boundary of the Site and sandy clay soils limiting groundwater flow, it is Golder's opinion that impacted groundwater has not migrated off the property owned by Electrolux.
- Petroleum and CVOC-impacted soil and groundwater are present adjacent to the southern portion of the Site building. The source of the petroleum-impacted soils and groundwater may potentially be from a historical release of cutting/machining oil from pits and trenches located within the Site building. The source of the CVOCs may potentially be from a historical release of degreasing solvents including TCE and 1,1,1-TCA.

## CLOSING

We understand that upon review of the information provided in this letter report, IDNR will advise Electrolux on whether additional Site assessment or corrective actions are required. Please don't hesitate to contact the undersigned if you have any questions regarding this report.

Sincerely,

**GOLDER ASSOCIATES INC.**

  
James S. Peace, P.G.  
Senior Hydrogeologist

  
Alistair P. T. Macdonald, CPG, LSP  
Program Leader and Principal

cc: John Heer – Electrolux Home Products Inc.  
Doug Ucci – Quantum Management Group, Inc.

Attachments:

- Table 1 Summary of Monitoring Well Construction Details
- Table 2 Groundwater Elevations
- Table 3 Summary of Detected Constituents in Soil
- Table 4 Summary of Detected Constituents in Groundwater
- Figure 1 Site Location Map
- Figure 2 Site Vicinity Map
- Figure 3 Site Map
- Figure 4 March 2011 Phreatic Surface Map
- Figure 5 April 2011 Trichloroethene and Total Extractable Hydrocarbon Groundwater Distribution Map
- Appendix A Boring and Monitoring Well Logs
- Appendix B Laboratory Analytical Results

## **TABLES**

**Table 1: Summary of Monitoring Well Construction Details**  
**Former Electrolux Manufacturing Facility**  
**Jefferson, Iowa**

Well ID	Date of Well Installation	Survey Data <sup>(1)</sup>				Boring Method	Well Construction							
		Northing (ft)	Easting (ft)	Ground Surface Elevation (NAVD 88)	TOC Elevation (NAVD 88)		Well Material	Top of Sand Pack (ft bgs)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	Top of Sand Pack (NAVD 88)	Top of Screen (NAVD 88)	Bottom of Screen (NAVD 88)	Middle of Screen (NAVD 88)
MW-1	11/20/10	3473727.53	4685877.23	1,052.80	1,052.56	DPT	PVC	4.0	5.0	10.0	1,048.56	1,047.56	1,042.56	1,045.06
MW-2	11/20/10	3473471.97	4685903.39	1,050.81	1,050.49	DPT	PVC	4.0	5.0	10.0	1,046.49	1,045.49	1,040.49	1,042.99
MW-3	11/20/10	3473712.19	4685345.59	1,050.94	1,050.70	DPT	PVC	3.0	4.0	9.0	1,047.70	1,046.70	1,041.70	1,044.20
MW-4	11/20/10	3473471.13	4685362.38	1,049.90	1,049.63	DPT	PVC	3.0	4.0	9.0	1,046.63	1,045.63	1,040.63	1,043.13
MW-5	11/20/10	3473144.28	4685429.86	1,051.53	1,051.23	DPT	PVC	3.0	4.0	9.0	1,048.23	1,047.23	1,042.23	1,044.73
MW-6	11/20/10	3473155.05	4685603.48	1,049.44	1,049.19	DPT	PVC	4.0	5.0	10.0	1,045.19	1,044.19	1,039.19	1,041.69
MW-7	11/20/10	3473151.23	4685908.05	1,049.64	1,049.36	DPT	PVC	9.0	10.0	15.0	1,040.36	1,039.36	1,034.36	1,036.86
MW-8	11/21/10	3473628.35	4685640.81	1,049.61	1,049.36	DPT	PVC	3.0	4.0	9.0	1,046.36	1,045.36	1,040.36	1,042.86
MW-9	11/21/10	3473180.95	4685490.47	1,049.39	1,049.11	DPT	PVC	3.0	7.0	12.0	1,046.11	1,042.11	1,037.11	1,039.61
MW-10	3/29/11	3473208.66	4685430.75	1,049.24	1,049.04	DPT	PVC	1.5	2.0	12.0	1,047.54	1,047.04	1,037.04	1,042.04
MW-11	3/29/11	3473158.10	4685534.48	1,049.79	1,049.61	DPT	PVC	2.5	3.0	13.0	1,047.11	1,046.61	1,036.61	1,041.61
MW-12	3/29/11	3473148.59	4685712.93	1,048.76	1,048.45	DPT	PVC	2.5	3.0	13.0	1,045.95	1,045.45	1,035.45	1,040.45
MW-13	3/29/11	3473150.08	4685780.62	1,048.55	1,048.26	DPT	PVC	2.5	3.0	13.0	1,045.76	1,045.26	1,035.26	1,040.26
MW-14	3/29/11	3473151.65	4685836.52	1,048.24	1,048.00	DPT	PVC	3.0	3.0	13.0	1,045.00	1,045.00	1,035.00	1,040.00
MW-15	3/29/11	3473346.30	4685811.61	1,050.66	1,050.44	DPT	PVC	2.5	3.0	13.0	1,047.94	1,047.44	1,037.44	1,042.44
MW-16	3/30/11	3473313.72	4685811.66	1,050.64	1,050.36	DPT	PVC	2.5	3.0	13.0	1,047.86	1,047.36	1,037.36	1,042.36
MW-17	3/30/11	3473291.78	4685808.33	1,050.59	1,050.25	DPT	PVC	2.5	3.0	13.0	1,047.75	1,047.25	1,037.25	1,042.25
MW-18	3/30/11	3473227.53	4685850.88	1,049.61	1,049.35	DPT	PVC	1.5	2.0	12.0	1,047.85	1,047.35	1,037.35	1,042.35
MW-19	3/30/11	3473290.59	4685723.36	1,050.73	1,050.55	DPT	PVC	1.5	2.0	12.0	1,049.05	1,048.55	1,038.55	1,043.55
MW-20	3/30/11	3473246.16	4685692.14	1,050.39	1,050.16	DPT	PVC	1.5	2.0	12.0	1,048.66	1,048.16	1,038.16	1,043.16
MW-21	3/30/11	3473266.47	4685590.13	1,050.37	1,050.15	DPT	PVC	1.5	2.0	12.0	1,048.65	1,048.15	1,038.15	1,043.15
MW-22	3/30/11	3473266.30	4685566.65	1,050.83	1,050.55	DPT	PVC	1.5	2.0	12.0	1,049.05	1,048.55	1,038.55	1,043.55
MW-23	3/30/11	3473265.78	4685542.41	1,050.79	1,050.57	DPT	PVC	1.5	2.0	12.0	1,049.07	1,048.57	1,038.57	1,043.57

**Notes:**

1. JEO Consulting Group, Inc. provided survey data in Iowa State Plane North 1401 coordinates.
2. DPT = Direct Push Technology rig
3. ft bgs = feet below ground surface
4. NAVD 88 = North American Vertical Datum 1988
5. PVC = polyvinyl chloride - 1.5-inch diameter well materials

Prepared by: JSP  
 Checked by: JGN  
 Reviewed by: APTM

**Table 2: Groundwater Elevations**  
**Former Electrolux Manufacturing Facility**  
**Jefferson, Iowa**

Environmental Monitoring Point	Total Depth (feet)	Elev. Top of Casing (feet NGVD)	12/3/2010		3/28/2011		4/18/2011	
			DTW (feet)	Elevation (feet NGVD)	DTW (feet)	Elevation (feet NGVD)	DTW (feet)	Elevation (feet NGVD)
MW-1	9.45	1,052.56	4.86	1,047.70	4.90	1,047.66	4.89	1,047.67
MW-2	9.48	1,050.49	4.77	1,045.72	4.38	1,046.11	4.14	1,046.35
MW-3	9.45	1,050.70	2.92	1,047.78	2.13	1,048.57	2.15	1,048.55
MW-4	8.51	1,049.63	3.48	1,046.15	3.10	1,046.53	3.06	1,046.57
MW-5	8.40	1,051.23	7.71	1,043.52	6.29	1,044.94	5.99	1,045.24
MW-6	9.55	1,049.19	6.95	1,042.24	4.90	1,044.29	5.58	1,043.61
MW-7	14.46	1,049.36	5.95	1,043.41	5.84	1,043.52	5.32	1,044.04
MW-8	8.49	1,049.36	1.83	1,047.53	1.14	1,048.22	1.29	1,048.07
MW-9	11.49	1,049.11	8.52	1,040.59	1.61	1,047.50	1.55	1,047.56
MW-10	11.94	1,049.04	NI	NA	NI	NA	0.2	1,048.84
MW-11	12.62	1,049.61	NI	NA	NI	NA	0.5	1,049.11
MW-12	12.45	1,048.45	NI	NA	NI	NA	8.25	1,040.20
MW-13	12.62	1,048.26	NI	NA	NI	NA	7.26	1,041.00
MW-14	12.61	1,048.00	NI	NA	NI	NA	NM	NA
MW-15	12.70	1,050.44	NI	NA	NI	NA	5.11	1,045.33
MW-16	12.67	1,050.36	NI	NA	NI	NA	4.85	1,045.51
MW-17	12.41	1,050.25	NI	NA	NI	NA	1.59	1,048.66
MW-18	11.69	1,049.35	NI	NA	NI	NA	1.07	1,048.28
MW-19	11.81	1,050.55	NI	NA	NI	NA	4.54	1,046.01
MW-20	11.51	1,050.16	NI	NA	NI	NA	3.88	1,046.28
MW-21	11.64	1,050.15	NI	NA	NI	NA	3.82	1,046.33
MW-22	11.73	1,050.55	NI	NA	NI	NA	4.33	1,046.22
MW-23	11.73	1,050.57	NI	NA	NI	NA	4.43	1,046.14

## Notes:

1. NGVD = National Geodetic Vertical Datum of 1929
2. DTW = Depth to water
3. NI = Not installed
4. NM = Not measured - covered with water
5. NA = Not applicable

Prepared By: JSP

Checked By: JGN

Reviewed By: APTM

**Table 3: Summary of Detected Parameters in Soil  
Former Electrolux Manufacturing Facility  
Jefferson, Iowa**

Analytical Method			Geologic Summary												Vol.											
Location	Start Depth (ft bgs)	End Depth (ft bgs)	OA-1			SW9071B			TEH Method OA-2			Total Extractable Petroleum Hydrocarbons (mg/kg)			RCRA Metals			1,1,1-Trichloroethane (ug/kg)			1,1,2,2-Tetrachloroethane (ug/kg)			1,1,2-Trichloroethane (ug/kg)		
			TPH as Gasoline (mg/kg)	Oil & Grease, Total Rec mg/kg	Diesel (C12-C22) (mg/kg)	Gasoline (mg/kg)	Motor Oil (mg/kg)				Barium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Arsenic (mg/kg)	Mercury (mg/kg)											
MW-10	2.5	5	Soft to firm (with depth) sandy CLAY	< 10.0 (250)	170	< 10.0	< 10.0	< 10.0	< 10.0	92.3	15.7	8.44	7.32	< 0.0235	< 4.84	< 4.84	< 4.84	< 4.84	< 4.84	< 4.84	< 4.84	< 4.84	< 4.84	< 4.84	< 4.84	< 4.84
MW-11	2.5	5	Soft to firm (with depth) sandy CLAY	< 10.0 (250)	150	< 10.0	< 10.0	< 10.0	< 10.0	90.1 (3)	18.4 (3)	< 17.5 (3)	6.23	< 0.0233	< 4.46	< 4.46	< 4.46	< 4.46	< 4.46	< 4.46	< 4.46	< 4.46	< 4.46	< 4.46	< 4.46	< 4.46
MW-12	5	5	Soft to firm (with depth) sandy CLAY	< 10.0 (250)	160	< 10.0	< 10.0	< 10.0	< 10.0	56.8	10.5	7.52	6.27	< 0.0255	< 5.70	< 5.70	< 5.70	< 5.70	< 5.70	< 5.70	< 5.70	< 5.70	< 5.70	< 5.70	< 5.70	< 5.70
MW-13	2.5	5	Soft to firm (with depth) sandy CLAY	< 10.0 (250)	150	< 10.0	< 10.0	< 10.0	< 10.0	56.2	13.5	7.11	6.18	< 0.0202	< 4.44	< 4.44	< 4.44	< 4.44	< 4.44	< 4.44	< 4.44	< 4.44	< 4.44	< 4.44	< 4.44	< 4.44
MW-14	2.5	5	Soft to firm (with depth) sandy CLAY	< 10.0 (250)	140	< 10.0	< 10.0	< 10.0	< 10.0	91.7	15.6	8.42	6.26	< 0.0230	< 4.78	< 4.78	< 4.78	< 4.78	< 4.78	< 4.78	< 4.78	< 4.78	< 4.78	< 4.78	< 4.78	< 4.78
	0	2.5	Stiff grayish-black sandy CLAY	< 10.0 (250)	320	< 19.4	< 14.4	< 14.4	< 14.4	13.7	21.4	31.2	6.48	< 0.0248	< 5.14	< 5.14	< 5.14	< 5.14	< 5.14	< 5.14	< 5.14	< 5.14	< 5.14	< 5.14	< 5.14	< 5.14
MW-15	2.5	5	Stiff grayish-black sandy CLAY, little fine sand	< 10.0 (250)	< 580	< 10.0	< 10.0	< 10.0	< 10.0	75.2	14.7	7.42	3.08	< 0.0233	< 4.85	< 4.85	< 4.85	< 4.85	< 4.85	< 4.85	< 4.85	< 4.85	< 4.85	< 4.85	< 4.85	< 4.85
	5	7.5	Very Soft sandy CLAY, little very fine to fine sand	< 10.0 (250)	150	< 10.0	< 10.0	< 10.0	< 10.0	50.5	14.4	6.52	6.80	< 0.0239	< 4.98	< 4.98	< 4.98	< 4.98	< 4.98	< 4.98	< 4.98	< 4.98	< 4.98	< 4.98	< 4.98	< 4.98
	7.5	10	Stiff sandy CLAY @ 5 ft bgs	< 10.0 (250)	< 580	< 10.0	< 10.0	< 10.0	< 10.0	79.8 (3)	14.1 (3)	< 17.8 (3)	5.23	< 0.0234	< 4.88	< 4.88	< 4.88	< 4.88	< 4.88	< 4.88	< 4.88	< 4.88	< 4.88	< 4.88	< 4.88	
	10	13	Stiff sandy CLAY	< 10.0 (250)	130	< 10.0	< 10.0	< 10.0	< 10.0	88.8	14.6	7.83	3.64	< 0.0232	< 4.62	< 4.62	< 4.62	< 4.62	< 4.62	< 4.62	< 4.62	< 4.62	< 4.62	< 4.62	< 4.62	
MW-16	0	2.5	Stiff grayish-black silty CLAY	< 10.0 (250)	< 600	< 10.0	< 10.0	< 10.0	< 10.0	138	19.2	8.51	8.56	< 0.0255	< 4.86	< 4.86	< 4.86	< 4.86	< 4.86	< 4.86	< 4.86	< 4.86	< 4.86	< 4.86	< 4.86	
	2.5	5	Soft, olive gray sandy CLAY, some silt	< 10.0 (250)	120	< 10.0	< 10.0	< 10.0	< 10.0	108	17.8	8.16	5.84	< 0.0275	< 4.61	< 4.61	< 4.61	< 4.61	< 4.61	< 4.61	< 4.61	< 4.61	< 4.61	< 4.61	< 4.61	
	5	7.5	Soft, olive gray sandy CLAY, some silt, fine sand	< 10.0 (250)	130	< 10.0	< 10.0	< 10.0	< 10.0	59.5	14.5	7.47	4.15	< 0.0233	< 4.78	< 4.78	< 4.78	< 4.78	< 4.78	< 4.78	< 4.78	< 4.78	< 4.78	< 4.78		
	7.5	10	Firm sandy CLAY @ 9 ft bgs	< 10.0 (250)	110	< 10.0	< 10.0	< 10.0	< 10.0	74.1	15.9	7.92	4.25	< 0.0212	< 4.33	< 4.33	< 4.33	< 4.33	< 4.33	< 4.33	< 4.33	< 4.33	< 4.33	< 4.33		
	10	13	Stiff sandy CLAY @ 11 ft bgs	< 10.0 (250)	< 570	< 10.0	< 10.0	< 10.0	< 10.0	68.5	13.4	9.21	6.09	< 0.0230	< 4.62	< 4.62	< 4.62	< 4.62	< 4.62	< 4.62	< 4.62	< 4.62	< 4.62	< 4.62		
MW-17	0	2.5	Soft to stiff silty CLAY, sand layer @ 2 ft bgs	< 10.0 (250)	< 530	49.6	< 10.0	189	238	126	17.5	9.05	5.24	< 0.0232	< 4.74	< 4.74	< 4.74	< 4.74	< 4.74	< 4.74	< 4.74	< 4.74	< 4.74	< 4.74	< 4.74	
	2.5	5	Stiff sandy CLAY	< 10.0 (250)	150	< 10.0	< 10.0	< 10.0	< 10.0	81.1 (3)	15.1 (3)	< 17.4 (3)	4.71	< 0.0232	< 4.56	< 4.56	< 4.56	< 4.56	< 4.56	< 4.56	< 4.56	< 4.56	< 4.56	< 4.56	< 4.56	
	5	7.5	Firm sandy CLAY	< 10.0 (250)	630	103	< 10.0	215	318	75.3	13.9	9.83	9.50	< 0.0235	< 4.83	< 4.83	< 4.83	< 4.83	< 4.83	< 4.83	< 4.83	< 4.83	< 4.83	< 4.83	< 4.83	
	7.5	10	Stiff sandy CLAY - odor	< 10.0 (250)	1400	417	34.2	978	1,430	65.5	12.1	8.71	7.27	< 0.0202	< 4.23	< 4.23	< 4.23	< 4.23	< 4.23	< 4.23	< 4.23	< 4.23	< 4.23	< 4.23	< 4.23	
MW-18	0	2.5	Grayish-black silty CLAY, little very fine to fine sand	< 10.0 (250)	190	< 10.0	< 10.0	< 10.0	< 10.0	138	14	< 5.76	3.43	< 0.0209	< 4.34	< 4.34	< 4.34	< 4.34	< 4.34	< 4.34	< 4.34	< 4.34	< 4.34	< 4.34		
	2.5	5	Stiff sandy CLAY - soft @ 6.0 to 6.5 ft bgs	< 10.0 (250)	220	< 10.0	< 10.0	< 10.0	< 10.0	97.9 (3)	14.3 (3)	< 17.2 (3)	4.79	< 0.0229	< 4.87	< 4.87	< 4.87	< 4.87	< 4.87	< 4.87	< 4.87	< 4.87	< 4.87	< 4.87		
	5	7.5	Stiff sandy CLAY @ 8 ft bgs	< 10.0 (250)	780	< 10.0	< 10.0	< 10.0	< 10.0	59.6 (5)	14.8 (5)	< 28.8 (5)	4.69	< 0.0230	< 4.82	< 4.82	< 4.82	< 4.82	< 4.82	< 4.82	< 4.82	< 4.82	< 4.82	< 4.82		
	7.5	10	Stiff sandy CLAY	< 10.0 (250)	610	< 10.0	< 10.0	< 10.0	< 10.0	104	18.2	5.78	3.56	< 0.0209	< 4.54	< 4.54	< 4.54	< 4.54	< 4.54	< 4.54	< 4.54	< 4.54	< 4.54			
	10	12	Stiff sandy CLAY	< 10.0 (250)	290	< 10.0	< 10.0	< 10.0	< 10.0	92.2	16.9	< 5.68	4.23	< 0.0227	< 5.05	< 5.05	< 5.05	< 5.05	< 5.05	< 5.05	< 5.05	< 5.05	< 5.05			
MW-19	0	2.5	Firm sandy CLAY, some silt	< 10.0 (250)	360	< 10.0	< 10.0	< 10.0	< 10.0	87.2 (3)	16.4 (3)	< 17.3 (3)	6.39	< 0.0231	< 5.78	< 5.78	< 5.78	< 5.78	< 5.78	< 5.78	< 5.78	< 5.78	< 5.78	< 5.78		
	2.5	5	Firm sandy CLAY - soft @ 5.5 ft bgs	< 10.0 (250)	310	< 10.0	< 10.0	< 10.0	< 10.0	74.1	16.5	< 5.74	5.39	< 0.0229	< 4.41	< 4.41	< 4.41	< 4.41	< 4.41	< 4.41	< 4.41	< 4.41	< 4.41			
	5	10	Firm sandy CLAY - soft @ 9 ft bgs	< 10.0 (250)	270	< 10.0	< 10.0	< 10.0	< 10.0	58.5 (3)	16.7 (3)	< 17.4 (3)	2.81	< 0.0232	1,300 (100)	< 4.43	< 4.43	< 4.43	< 4.43	< 4.43	< 4.43	< 4.43	< 4.43			
	10	12	Stiff sandy CLAY, some silt	< 10.0 (250)	450	< 10.0	< 10.0	< 10.0	< 10.0	48.7 (3)	13.3 (3)	< 17.3 (3)	2.68	< 0.0230	5,870 (100)	< 4.50	< 4.50	< 4.50	< 4.50	< 4.50	< 4.50	< 4.50	< 4.50			
MW-20	0	2.5	Firm grayish-black sandy CLAY, some silt	< 10.0 (250)	430	< 10.0	< 10.0	< 10.0	< 10.0	39.4	19.4	< 7.73	8.76	< 0.0234	< 5.07	< 5.07	< 5.07	< 5.07	< 5.07	< 5.07	< 5.07	< 5.07	< 5.07			
	2.5	5	Soft light gray CLAY - @ 4.25 ft bgs - 1 cm sand seam	< 10.0 (250)	350	< 10.0	< 10.0	< 10.0	< 10.0	100	135 (3)	25.6 (3)	< 18.7 (3)	1.25	< 0.0270	< 5.05	< 5.05	< 5.05	< 5.05	< 5.05	< 5.05	< 5.05	< 5.05			
	5	7.5	Soft to firm sandy CLAY, some silt	< 10.0 (250)	310	< 10.0	< 10.0	< 10.0	< 10.0	83.2	16.1	< 5.80	6.15	< 0.0232	< 4.10	< 4.10	< 4.10	< 4.10	< 4.10	< 4.10	< 4.10	< 4.10				
	7.5	10	Stiff sandy CLAY, some silt	< 10.0 (250)	320	< 10.0	< 10.0	< 10.0	< 10.0	64.8	11.8	< 5.75	5.33	< 0.0230	< 4.54	< 4.54	< 4.54	< 4.54	< 4.54	< 4.54	< 4.54	< 4.54				
MW-21	0	2.5	Very soft bluish-gray sandy CLAY, some silt - very fine to fine sand seam @ 9.4 to 9.8 ft bgs	< 10.0 (250)	280	104	7.8	105	105 (3)	14.9 (3)	< 17.2 (3)	6.03	< 0.0207	< 4.38	< 4.38	< 4.38	< 4.38	< 4.38	< 4.38	< 4.38	< 4.38	< 4.38	< 4.38			
	2.5	5	Stiff black CLAY	< 10.0 (250)	180	21.2	10.4	7.8	105	168	19.8	7.95	2.83	< 0.0246	< 5.25	&										

**Table 3: Summary of Detected Parameters in Soil**  
**Former Electrolux Manufacturing Facility**  
**Jefferson, Iowa**

Analytical Method			Soil Organic Compounds EPA Method 8260E										Volatile Organic Compounds				
			Geologic Summary														
Location	Start Depth (ft bgs)	End Depth (ft bgs)	1,1-Dichloroethene (ug/kg)	1,2,3-Trichloropropane (ug/kg)	1,2,4-Trimethylbenzene (ug/kg)	1,2-Dichloroethane (ug/kg)	1,3,5-Trimethylbenzene (ug/kg)	4-Chlorotoluene (ug/kg)	Acetone (ug/kg)	Chloroethane (ug/kg)	cis-1,2-Dichloroethene (ug/kg)	Cymene (ug/kg)	Ethylbenzene (ug/kg)	Isopropylbenzene (ug/kg)	n-Butylbenzene (ug/kg)		
MW-10	2.5	5	< 4.84	< 4.84	< 4.84	< 4.84	< 4.84	< 4.84	< 48.4	< 19.4	< 4.84	< 4.84	< 4.84	< 4.84	< 4.84	< 4.84	
MW-11	2.5	5	< 4.46	< 4.46	< 4.46	< 4.46	< 4.46	< 4.46	< 44.6	< 17.8	< 4.46	< 4.46	< 4.46	< 4.46	< 4.46	< 4.46	
MW-12	1	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 57.0	< 20.8	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
MW-13	2.5	5	< 4.44	< 4.44	< 4.44	< 4.44	< 4.44	< 4.44	< 44.4	< 19.8	< 4.44	< 4.44	< 4.44	< 4.44	< 4.44	< 4.44	
MW-14	2.5	5	< 4.78	< 4.78	< 4.78	< 4.78	< 4.78	< 4.78	< 47.8	< 19.1	< 4.78	< 4.78	< 4.78	< 4.78	< 4.78	< 4.78	
	0	2.5	Stiff grayish-black, sandy CLAY	< 5.14	< 5.14	< 5.14	< 5.14	< 5.14	< 54.3	< 20.6	< 5.14	< 5.14	< 5.14	< 5.14	< 5.14	< 5.14	
MW-15	2.5	5	Stiff grayish-black, sandy CLAY, little fine sand	< 4.85	< 4.85	< 4.85	< 4.85	< 4.85	< 48.5	< 19.4	< 4.85	< 4.85	< 4.85	< 4.85	< 4.85	< 4.85	
	5	7.5	Very Soft sandy CLAY, little very fine to fine sand	< 4.98	< 4.98	< 4.98	< 4.98	< 4.98	< 49.8	< 19.9	< 4.98	< 4.98	< 4.98	< 4.98	< 4.98	< 4.98	
	7.5	10	Stiff sandy CLAY @ 8 ft bgs	< 4.88	< 4.88	< 4.88	< 4.88	< 4.88	< 48.8	< 19.5	< 4.88	< 4.88	< 4.88	< 4.88	< 4.88	< 4.88	
	10	13	Stiff sandy CLAY	< 4.62	< 4.62	< 4.62	< 4.62	< 4.62	< 46.2	< 18.5	< 5.62	< 4.62	< 4.62	< 4.62	< 4.62	< 4.62	
MW-16	0	2.5	Stiff grayish-black silty CLAY	< 4.86	< 4.86	< 4.86	< 4.86	< 4.86	< 48.6	< 19.4	< 4.86	< 4.86	< 4.86	< 4.86	< 4.86	< 4.86	
	2.5	5	Soft, olive gray sandy CLAY, some silt	< 4.61	< 4.61	< 4.61	< 4.61	< 4.61	< 46.1	< 18.5	< 4.61	< 4.61	< 4.61	< 4.61	< 4.61	< 4.61	
	5	7.5	Soft, olive gray sandy CLAY, some silt, fine sand	< 4.78	< 4.78	< 4.78	< 4.78	< 4.78	< 47.8	< 19.1	< 4.78	< 4.78	< 4.78	< 4.78	< 4.78	< 4.78	
	7.5	10	Firm sandy CLAY @ 9 ft bgs	< 4.33	< 4.33	< 4.33	< 4.33	< 4.33	< 43.3	< 17.3	< 4.33	< 4.33	< 4.33	< 4.33	< 4.33	< 4.33	
	10	13	Stiff sandy CLAY @ 11 ft bgs	< 4.62	< 4.62	< 4.62	< 4.62	< 4.62	< 46.2	< 18.5	18.1	< 4.62	< 4.62	< 4.62	< 4.62	< 4.62	
MW-17	0	2.5	Soft to stiff silty CLAY, sand layer @ 2 ft bgs	< 4.74	< 4.74	< 4.74	< 4.74	< 4.74	< 47.4	55.3	< 19.0	< 4.74	< 4.74	< 4.74	< 4.74	< 4.74	
	2.5	5	Stiff sandy CLAY	< 4.56	< 4.56	< 4.56	< 4.56	< 4.56	< 45.6	< 18.2	< 4.56	< 4.56	< 4.56	< 4.56	< 4.56	< 4.56	
	5	7.5	Firm sandy CLAY	< 4.83	< 4.83	< 4.83	< 4.83	< 4.83	< 48.3	< 19.3	< 4.83	< 4.83	< 4.83	< 4.83	< 4.83	< 4.83	
	7.5	10	Stiff sandy CLAY - odor	< 4.23	9.8	< 4.23	< 4.23	< 4.23	< 42.3	< 16.9	< 4.23	< 4.23	< 4.23	< 4.23	< 4.23	< 4.23	
	10	13	Stiff sandy CLAY	< 4.34	< 4.34	< 4.34	< 4.34	< 4.34	< 43.4	< 17.4	24.5	< 4.34	< 4.34	< 4.34	< 4.34	< 4.34	
MW-18	0	2.5	Grayish-black silty CLAY, little very fine to fine sand	< 5.12	< 5.12	< 5.12	< 5.12	< 5.12	< 51.2	88.0	< 20.5	< 5.12	< 5.12	< 5.12	< 5.12	< 5.12	
	2.5	5	Stiff sandy CLAY	< 4.87	< 4.87	< 4.87	< 4.87	< 4.87	< 48.7	< 19.5	< 4.87	< 4.87	< 4.87	< 4.87	< 4.87	< 4.87	
	5	7.5	Stiff sandy CLAY - soft 6.0 to 6.5 ft bgs	< 4.82	< 4.82	< 4.82	< 4.82	< 4.82	< 48.2	< 19.3	16.7	< 4.82	< 4.82	< 4.82	< 4.82	< 4.82	
	7.5	10	Stiff sandy CLAY @ 8 ft bgs	< 4.54	< 4.54	< 4.54	< 4.54	< 4.54	< 45.4	< 18.2	39.2	< 4.54	< 4.54	< 4.54	< 4.54	< 4.54	
	10	12	Stiff sandy CLAY	< 5.05	< 5.05	< 5.05	< 5.05	< 5.05	< 50.5	< 20.2	< 5.05	< 5.05	< 5.05	< 5.05	< 5.05	< 5.05	
MW-19	0	2.5	Firm sandy CLAY, some silt	< 5.78	< 5.78	< 5.78	< 5.78	< 5.78	< 57.8	< 23.6	< 5.78	< 5.78	< 5.78	< 5.78	< 5.78	< 5.78	
	2.5	5	Firm sandy CLAY - lof @ 5.5 ft bgs	< 4.41	< 4.41	< 4.41	< 4.41	< 4.41	< 44.1	< 17.6	< 4.41	< 4.41	< 4.41	< 4.41	< 4.41	< 4.41	
	5	10	Firm sandy CLAY - lof @ 9 ft bgs	259	< 4.43	< 4.43	< 4.43	< 4.43	< 44.3	< 17.7	6.08	< 4.43	< 4.43	< 4.43	< 4.43	< 4.43	
	10	12	Stiff sandy CLAY	2,150 (100)	< 4.50	< 4.50	6.79	< 4.50	< 45.0	< 18.0	8.21	< 4.50	19	< 4.50	< 4.50	< 4.50	
MW-20	0	2.5	Firm grayish-black sandy CLAY, some silt	< 5.07	< 5.07	< 5.07	< 5.07	< 5.07	< 50.7	182	< 20.3	< 5.07	< 5.07	< 5.07	< 5.07	< 5.07	
	2.5	5	Soft light gray sandy CLAY - @ 4.25 ft bgs - 1 cm sand seam	< 5.05	< 5.05	< 5.05	< 5.05	< 5.05	< 50.5	< 20.2	< 5.05	< 5.05	< 5.05	< 5.05	< 5.05	< 5.05	
	5	7.5	Soft to firm sandy CLAY, some silt	< 4.10	< 4.10	< 4.10	< 4.10	< 4.10	< 41.0	< 16.4	< 4.10	< 4.10	< 4.10	< 4.10	< 4.10	< 4.10	
	7.5	10	Stiff sandy CLAY, some silt	< 4.54	< 4.54	< 4.54	< 4.54	< 4.54	< 45.4	< 18.2	< 4.54	< 4.54	< 4.54	< 4.54	< 4.54	< 4.54	
MW-21	0	2.5	Very soft black CLAY - stiff @ 2 ft bgs	< 4.75	< 4.75	32.2	< 4.75	20.1	< 47.5	53.6	< 19.0	< 4.75	< 4.75	< 4.75	< 4.75	< 4.75	
	2.5	5	Firm to stiff bluish-gray sandy CLAY, some silt	< 5.33	< 5.33	223	< 5.33	140	< 53.3	148	< 21.3	< 5.33	80.2	< 5.33	11	40.5	
	5	10	Very soft to firm sandy CLAY, some silt	< 5.25	< 5.25	279	< 5.25	120	< 52.5	21.0	< 5.25	28.4	< 5.25	22.3	53.3		
	10	12	Firm, medium gray very fine to fine sandy CLAY, some silt	< 4.38	< 4.38	< 4.38	< 4.38	< 4.38	< 43.8	17.5	26.4	< 4.38	< 4.38	< 4.38	< 4.38	< 4.38	
MW-21A	0	2.5	Stiff black CLAY	< 5.25	< 5.25	12.6	< 5.25	7.56	< 5.25	< 5.25	< 21.0	< 5.25	< 5.25	< 5.25	< 5.25	< 5.25	
	2.5	5	Very soft bluish gray sandy CLAY, some silt	< 504 (100)	< 504 (100)	8,810 (100)	< 504 (100)	3,360 (100)	< 504 (100)	< 5,040 (100)	< 2,020 (100)	< 504 (100)	680 (100)	< 504 (100)	746 (100)	1,980 (100)	
	5	7.5	Very soft bluish gray sandy CLAY, some silt - stiff @ 7 ft bgs	< 447 (100)	< 447 (100)	14,600 (100)	< 447 (100)	5,060 (100)	< 447 (100)	< 4,470 (100)	< 1,790 (100)	< 447 (100)	1,286 (100)	< 447 (100)	1,400 (100)	2,520 (100)	
	7.5	10	Stiff, firm to medium sandy CLAY	< 4.85	< 4.85	9.78	< 4.85	< 4.85	< 4.85	< 48.5	< 19.4	30.2	< 4.85	< 4.85	< 4.85	< 4.85	
MW-22	0	2.5	Stiff to very stiff black CLAY	< 5.01	< 5.01	< 5.01	< 5.01	< 5.01	< 50.1	< 20.0	9.31	< 5.01	< 5.01	< 5.01	< 5.01	< 5.01	
	2.5	5	Stiff black silty CLAY	< 5.13	< 5.13	< 5.13	< 5.13	< 5.13	< 51.3	23.0	< 5.13	< 5.13	< 5.13	< 5.13	< 5.13	< 5.13	
	5	10	Very soft bluish gray silty CLAY - fine to coarse sand seam @ 9.6 to 10 ft bgs	< 5.37	< 5.37	< 5.37	< 5.37	< 5.37	< 53.7	75.2	< 5.37	< 5.37	< 5.37	< 5.37	< 5.37		
	10	12	Loose silty SAND @ 10 to 10.5 ft bgs to Firm sandy CLAY, some silt	< 4.89	< 4.89	< 4.89	< 4.89	< 4.89	< 48.9	< 19.6	< 4.89	< 4.89	< 4.89	< 4.89	< 4.89	< 4.89	
MW-23	0	2.5	Stiff to very stiff black CLAY	< 5.95	< 5.95	< 5.95	< 5.95	< 5.95	< 5.95	< 5.95	< 5.95	< 23.8	< 5.95	< 5.95	< 5.95	< 5.95	
	2.5	5	Stiff olive-black silty CLAY	< 5.13	< 5.13	< 5.13	< 5.13	< 5.13	< 51.3	20.5	< 5.13	< 5.13	< 5.13	< 5.13	< 5.13	< 5.13	
	5	7.5	Soft fine to medium sandy CLAY, some silt to 6 ft bgs - Loose silty SAND	< 4.81	< 4.81	< 4.81	< 4.81	< 4.81	< 48.1	< 19.2	< 4.81	< 4.81	< 4.81	< 4.81	< 4.81	< 4.81	
	7.5	10	Loose medium bluish fine to coarse silty SAND to 9.75 ft bgs	< 5.09	< 5.09	16.2	< 5.09	5.42	< 5.09	50.9	48.7	< 5.09	< 5.09	< 5.09	< 5.09	< 5.09	
	10	12	Stiff medium gray fine to coarse sandy CLAY, some silt	< 4.63	< 4.63	< 4.63	< 4.63	< 4.63	< 46.3	< 18.5	< 4.63	< 4.63	< 4.63	< 4.63	< 4.63	< 4.63	

Notes:  
mg/kg = milligrams per kilogram  
ug/kg = micrograms per kilogram  
( ) = dilation factors - no parentheses indicates a laboratory dilution factor of one  
TPH = Total petroleum hydrocarbons  
TEH = Total Extractable Hydrocarbons - TEH is the combination of motor oil, gasoline and diesel range organics.  
ft bgs = feet below ground surface

**Table 3: Summary of Detected Parameters in Soil**  
**Former Electrolux Manufacturing Facility**  
**Jefferson, Iowa**

Analytical Method			Geologic Summary	Compounds EPA Method 8260E						
Location	Start Depth (ft bgs)	End Depth (ft bgs)		n-Propylbenzene (ug/kg)	sec-Butylbenzene (ug/kg)	tert-Butylbenzene (ug/kg)	Tetrachloroethene (ug/kg)	Toluene (ug/kg)	Trichloroethene (ug/kg)	Xylenes, Total (ug/kg)
MW-10	0	2.5	Soft to firm (with depth) sandy CLAY	< 4.84	< 4.84	< 4.84	< 4.84	< 4.84	< 4.84	< 14.5
MW-11	2.5	5	Soft to firm (with depth) sandy CLAY	< 4.46	< 4.46	< 4.46	< 4.46	< 4.46	< 4.46	< 13.4
MW-12	1	5	Soft to firm (with depth) sandy CLAY	< 5.70	< 5.70	< 5.70	< 5.70	< 5.70	< 5.70	< 17.1
MW-13	2.5	5	Soft to firm (with depth) sandy CLAY	< 4.44	< 4.44	< 4.44	< 4.44	< 4.44	< 4.44	< 13.3
MW-14	2.5	5	Soft to firm (with depth) sandy CLAY	< 4.78	< 4.78	< 4.78	< 4.78	< 4.78	< 4.78	< 14.3
MW-15	0	2.5	Stiff grayish-black, sandy CLAY	< 5.14	< 5.14	< 5.14	< 5.14	< 5.14	< 5.14	< 15.4
	2.5	5	Stiff grayish-black, sandy CLAY, little fine sand	< 4.85	< 4.85	< 4.85	< 4.85	< 4.85	< 4.85	< 14.6
	5	7.5	Very Soft sandy Clay, little very fine to fine sand	< 4.98	< 4.98	< 4.98	< 4.98	< 4.98	< 4.98	< 14.9
	7.5	10	Stiff sandy Clay @ 8 ft bgs	< 4.88	< 4.88	< 4.88	< 4.88	< 4.88	< 4.88	< 14.6
	10	13	Stiff sandy Clay	< 4.62	< 4.62	< 4.62	< 4.62	< 4.62	244	< 13.9
MW-16	0	2.5	Stiff grayish-black silty CLAY	< 4.86	< 4.86	< 4.86	< 4.86	< 4.86	< 4.86	< 14.6
	2.5	5	Soft, olive gray sandy CLAY, some silt	< 4.61	< 4.61	< 4.61	< 4.61	< 4.61	< 4.61	< 13.8
	5	7.5	Soft, olive gray sandy CLAY, some silt, fine sand	< 4.78	< 4.78	< 4.78	< 4.78	< 4.78	< 4.78	< 14.3
	7.5	10	Firm sandy CLAY @ 9 ft bgs	< 4.33	< 4.33	< 4.33	< 4.33	< 4.33	< 4.33	< 13.0
	10	13	Stiff sandy CLAY @ 11 ft bgs	< 4.62	< 4.62	6.34	< 4.62	324	< 13.8	
MW-17	0	2.5	Soft to stiff silty CLAY, sand layer @ 2 ft bgs	< 4.74	< 4.74	< 4.74	< 4.74	< 4.74	< 4.74	< 14.2
	2.5	5	Stiff sandy CLAY	< 4.56	< 4.56	< 4.56	< 4.56	< 4.56	< 4.56	< 13.7
	5	7.5	Firm sandy CLAY	< 4.83	< 4.83	< 4.83	< 4.83	< 4.83	< 4.83	< 14.5
	7.5	10	Stiff sandy CLAY - odor	< 4.23	19.2	< 4.23	< 4.23	< 4.23	< 4.23	< 12.7
	10	13	Stiff sandy CLAY	< 4.34	< 4.34	< 4.34	< 4.34	< 4.34	127	< 13.0
MW-18	0	2.5	Grayish-black silty CLAY, little very fine to fine sand	< 5.12	< 5.12	< 5.12	< 5.12	< 5.12	5.90	< 15.4
	2.5	5	Stiff sandy CLAY, some silt	< 4.87	< 4.87	< 4.87	< 4.87	< 4.87	< 4.87	< 14.6
	5	7.5	Stiff sandy CLAY - soft 8.0 to 8.5 ft bgs	< 4.82	< 4.82	< 4.82	< 4.82	< 4.82	< 4.82	< 14.5
	7.5	10	Stiff sandy CLAY @ 8 ft bgs	< 4.54	< 4.54	< 4.54	< 4.54	< 4.54	42.8	< 13.6
	10	12	Stiff sandy CLAY	< 5.05	< 5.05	< 5.05	< 5.05	< 5.05	145	< 15.1
MW-19	0	2.5	Firm sandy CLAY, some silt	< 4.78	< 4.78	< 4.78	< 4.78	< 4.78	< 4.78	< 17.3
	2.5	5	Firm sandy CLAY - soft @ 5.5 ft bgs	< 4.41	< 4.41	< 4.41	< 4.41	< 4.41	7.57	< 13.2
	5	10	Firm sandy CLAY stiff @ 9 ft bgs	< 4.43	< 4.43	161	< 4.43	47,100 (100)	< 15.3	
	10	12	Stiff sandy CLAY	< 4.50	< 4.50	214	25.9	159,000 (2000)	94.4	
	0	2.5	Firm grayish-black sandy CLAY, some silt	< 5.07	< 5.07	< 5.07	< 5.07	77.0	< 15.2	
MW-20	2.5	5	Soft light gray silty CLAY - @ 4.25 ft bgs - 1 cm sand seam	< 5.05	< 5.05	< 5.05	< 5.05	19.8	< 15.2	
	5	7.5	Soft to firm sandy CLAY, some silt	< 4.10	< 4.10	< 4.10	< 4.10	8.57	< 12.3	
	7.5	10	Stiff sandy CLAY, some silt	< 4.54	< 4.54	< 4.54	< 4.54	< 4.54	< 13.6	
	0	2.5	Very soft black CLAY - stiff @ 2 ft bgs	< 4.75	< 4.75	< 4.75	< 4.75	< 4.75	< 14.3	
	2.5	5	Firm to stiff bluish-gray sandy CLAY, some silt	27.4	30.2	< 5.33	< 5.33	< 5.33	< 5.33	56.7
MW-21	5	10	Very soft bluish-gray sandy CLAY, some silt - very fine to fine sand seam @ 9.4 to 9.8 ft bgs	58.1	36.1	5.55	< 5.25	< 5.25	< 5.25	72.0
	0	2.5	Firm, medium gray very fine to fine sand CLAY, some silt	< 4.38	< 4.38	< 4.38	< 4.38	< 4.38	< 4.38	< 13.1
	2.5	5	Stiff black CLAY	< 5.25	< 5.25	< 5.25	< 5.25	< 5.25	< 5.25	< 15.7
	5	7.5	Very soft bluish gray sandy CLAY, some silt	2,000 (100)	1,250 (100)	< 504 (100)	< 504 (100)	< 504 (100)	< 504 (100)	< 1,510 (100)
	7.5	10	Very soft bluish gray sandy CLAY, some silt - stiff @ 7 ft bgs	3,570 (100)	1,660 (100)	< 447 (100)	< 447 (100)	< 447 (100)	< 447 (100)	3,830 (100)
MW-22	10	12	Stiff, fine to medium sandy CLAY	< 4.85	< 4.85	< 4.85	< 4.85	< 4.85	< 4.85	< 14.6
	0	2.5	Stiff to very stiff black CLAY	< 5.01	< 5.01	< 5.01	< 5.01	< 5.01	< 5.01	< 15.0
	2.5	5	Stiff black silty CLAY	< 5.13	< 5.13	< 5.13	< 5.13	< 5.13	< 5.13	< 15.4
	5	10	Very soft bluish gray silty CLAY - fine to coarse sand seam @ 9.6 to 10 ft bgs	< 5.37	< 5.37	< 5.37	< 5.37	< 5.37	< 5.37	< 16.1
	10	12	Loose silty SAND @ 10 to 10.5 ft bgs to Firm sandy CLAY, some silt	< 4.89	< 4.89	< 4.89	< 4.89	< 4.89	< 4.89	< 14.7
MW-23	0	2.5	Stiff to very stiff black CLAY	< 5.95	< 5.95	< 5.95	< 5.95	< 5.95	< 5.95	< 17.9
	2.5	5	Stiff olive-black silty CLAY	< 5.13	< 5.13	< 5.13	< 5.13	< 5.13	< 5.13	< 15.4
	5	7.5	Soft fine to medium sandy CLAY, some silt to 6 ft bgs - Loose silty SAND	< 4.81	< 4.81	< 4.81	< 4.81	< 4.81	< 4.81	< 14.4
	7.5	10	Loose medium bluish fine to coarse silty SAND to 9.75 ft bgs	< 5.09	< 5.09	< 5.09	< 5.09	< 5.09	< 5.09	< 15.3
	10	12	Stiff medium gray fine to coarse sandy CLAY, some silt	< 4.63	< 4.63	< 4.63	< 4.63	< 4.63	< 4.63	< 13.9

## Notes:

mg/kg = milligrams per kilogram.

ug/kg = micrograms per kilogram.

() = dilution factors - no parentheses indicates a laboratory dilution factor of one.

TPH = Total petroleum hydrocarbons.

TEH = Total Extractable Hydrocarbons - TEH is the combination of motor oil, gasoline and diesel range organics.

ft bgs = feet below ground surface

Prepared by: JSP

Checked by: JLJ

Reviewed by: APTM

**Table 4: Summary of Detected Parameters in Groundwater**  
**Former Electrolux Manufacturing Facility**  
**Jefferson, Iowa**

Location	MW-5	MW-6	MW-7	MW-9	MW-11	MW-12	MW-13	MW-15	MW-16	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	MW-23
Sample Date	Apr-11	Apr-11	Apr-11	Apr-11	Apr-11	Apr-11	Apr-11	Apr-11	Apr-11	Apr-11	Apr-11	Apr-11	Apr-11	Apr-11	Apr-11	Apr-11
Analyte	Unit	MCL														
<b>Iowa OA-2 Analytical Method</b>																
Diesel (C12-C22)	ug/L	NS	< 300	< 300	< 300	1,390	359	360	< 300	< 375	< 300	< 300	< 300	< 300	36,000	10,300
Gasoline	ug/L	NS	< 300	< 300	< 300	< 300	< 300	< 300	< 375	< 300	< 300	< 300	13,000	< 300	17,000	3760
Motor Oil	ug/L	NS	< 300	< 300	514	< 300	< 300	< 300	< 375	< 300	< 300	< 300	< 300	< 300	65,700	1240
Total Extractable Petroleum Hydrocarbons	ug/L	NS	< 300	< 300	< 300	1,910	359	360	< 300	< 375	< 300	< 300	13,000	< 300	119,000	4,320
<b>Volatile Organic Compound EPA Method SW8260B</b>																
1,1,1-Trichloroethane	ug/L	<b>200</b>	< 1.00	< 1.00	3.61	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	<b>4,590 (100)</b>	< 1.00	<b>483</b>	90.3
1,1,2-Trichloroethane	ug/L	<b>5.00</b>	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	<b>35.1</b>	< 1.00	< 1.00	< 1.00
1,1-Dichloroethane	ug/L	NS	< 1.00	< 1.00	5.22	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	3.01	85.0	< 1.00	37.6
1,1-Dichloroethene	ug/L	<b>7.00</b>	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	<b>3,750 (100)</b>	< 2.00	5.37	5.79
1,2,4-Trimethylbenzene	ug/L	NS	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	285	246
1,2-Dichloroethane	ug/L	<b>5.00</b>	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	<b>8.91</b>	< 1.00	< 1.00	< 1.00
1,3,5-Trimethylbenzene	ug/L	NS	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	104	71.6
2-Butanone	ug/L	NS	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	25.6	< 10.0
Acetone	ug/L	NS	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	59.8	< 10.0	< 10.0	51.0	< 10.0	< 10.0	447	74.6
Benzene	ug/L	5.00	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.76	< 0.50	< 0.50	< 0.50
Chloroethane	ug/L	NS	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	7.51	104
Chloroform	ug/L	80	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	4.03	< 1.00	< 1.00	< 1.00
Chloromethane	ug/L	NS	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	11.7	< 3.00	< 3.00	< 3.00
cis-1,2-Dichloroethene	ug/L	<b>70</b>	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	4.52	17.3	2.30	39.9	<b>120</b>	< 1.00	8.65	7.58
Cymene	ug/L	NS	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	12.0	8.55
Ethylbenzene	ug/L	700	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	33.0	< 1.00	17.5	11.7
Isopropylbenzene	ug/L	NS	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	27.8	30.0
Naphthalene	ug/L	NS	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	38.4	36.8
n-Butylbenzene	ug/L	NS	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	15.8	10.7
n-Propylbenzene	ug/L	NS	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	52.0	49.2
sec-Butylbenzene	ug/L	NS	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	13.8	12.5
tert-Butylbenzene	ug/L	NS	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	3.06	2.75
Tetrachloroethene	ug/L	<b>5.00</b>	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	2.49	< 1.00	< 1.00	<b>548 (100)</b>	< 1.00	2.22	1.94	
Toluene	ug/L	1,000	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	41.1	< 1.00	6.64	12.5	
trans-1,2-Dichloroethene	ug/L	100	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	122	223	11.2	76.3	<b>189,000 (20,000)</b>	<b>13.3</b>	3.08	1.19
Trichloroethene	ug/L	<b>5.00</b>	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	122	223	11.2	76.3	<b>189,000 (20,000)</b>	<b>13.3</b>	3.08	1.19
Vinyl Chloride	ug/L	<b>2.00</b>	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.84	< 1.00	1.18	<b>3.64</b>	< 1.00
Xylenes, Total	ug/L	10,000	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	160	< 3.00	226	130

Notes:

ug/L = micrograms per liter

MCL = Environmental Protection Agency's Maximum Contaminant Level

Bold = Compound exceeds MCL

Total Extractable Petroleum Hydrocarbons are a sum of the three petroleum ranges: diesel, gasoline, motor oil

NS = No standard

Parentheses ( ) = dilution factor. If ( ) not present, dilution factor is one

Prepared By: JSP

Checked By: JLF

Reviewed By: APTM

## **FIGURES**

1,4-Dioxane?

**Table 4: Summary of Detected Parameters in Groundwater**  
**Former Electrolux Manufacturing Facility**  
**Jefferson, Iowa**

Analyte	Location	MW-5	MW-6	MW-7	MW-9	MW-11	MW-12	MW-13	MW-15	MW-16	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	MW-23	
	Sample Date	Apr-11	Apr-11	Apr-11	Apr-11	Apr-11												
	Unit	MCL																
<b>Iowa OA-2 Analytical Method</b>																		
Diesel (C12-C22)	ug/L	NS	< 300	< 300	< 300	1,390	359	360	< 300	< 375	< 300	< 300	< 300	< 300	< 300	36,000	10,300	3,120
Gasoline	ug/L	NS	< 300	< 300	< 300	< 300	< 300	< 300	< 375	< 300	< 300	< 300	13,000	< 300	17,000	3760	763	
Motor Oil	ug/L	NS	< 300	< 300	< 300	514	< 300	< 300	< 375	< 300	< 300	< 300	< 300	< 300	< 300	65,700	1240	440
Total Extractable Petroleum Hydrocarbons	ug/L	NS	< 300	< 300	< 300	1,910	359	360	< 300	< 375	< 300	< 300	13,000	< 300	119,000	15,300	4,320	
<b>Volatile Organic Compound EPA Method SW8260B</b>																		
1,1,1-Trichloroethane	ug/L	200	< 1.00	< 1.00	3.61	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	4,590 (100)	< 1.00	483	90.3	< 1.00	
1,1,2-Trichloroethane	ug/L	5.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	35.1	< 1.00	< 1.00	< 1.00	< 1.00	
1,1-Dichloroethane	ug/L	NS	< 1.00	< 1.00	5.22	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	3.01	85.0	< 1.00	37.6	292	13.3
1,1-Dichloroethene	ug/L	7.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	3,750 (100)	< 2.00	5.37	5.79	< 2.00	
1,2,4-Trimethylbenzene	ug/L	NS	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	285	246	31.9	
1,2-Dichloroethane	ug/L	5.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	8.91	< 1.00	< 1.00	< 1.00	< 1.00	
1,3,5-Trimethylbenzene	ug/L	NS	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	104	71.6	9.44	
2-Butanone	ug/L	NS	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	25.6	< 10.0	< 10.0	
Acetone	ug/L	NS	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	59.8	< 10.0	< 10.0	51.0	< 10.0	< 10.0	447	74.6	12.4	
Benzene	ug/L	5.00	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.76	< 0.50	< 0.50	< 0.50	< 0.50	
Chloroethane	ug/L	NS	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	< 4.00	7.51	112	104	
Chloroform	ug/L	80	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	4.03	< 1.00	< 1.00	< 1.00	< 1.00	
Chloromethane	ug/L	NS	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	11.7	< 3.00	< 3.00	< 3.00	< 3.00	
cis-1,2-Dichloroethene	ug/L	70	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	4.52	17.3	2.30	39.9	120	< 1.00	8.65	7.58	< 1.00	
Cymene	ug/L	NS	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	12.0	8.55	< 1.00	
Ethylbenzene	ug/L	700	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	33.0	< 1.00	17.5	11.7	1.59	
Isopropylbenzene	ug/L	NS	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	27.8	30.0	5.07	
Naphthalene	ug/L	NS	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	38.4	36.8	5.80	
n-Butylbenzene	ug/L	NS	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	15.8	10.7	2.15	
n-Propylbenzene	ug/L	NS	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	52.0	49.2	7.68	
sec-Butylbenzene	ug/L	NS	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	13.8	12.5	3.04	
tert-Butylbenzene	ug/L	NS	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	3.06	2.75	< 1.00	
Tetrachloroethene	ug/L	5.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	548 (100)	< 1.00	2.22	1.94	< 1.00	
Toluene	ug/L	1,000	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	41.1	< 1.00	6.64	12.5	< 1.00	
trans-1,2-Dichloroethene	ug/L	100	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	2.25	< 1.00	< 1.00	2.62	< 1.00	
Trichloroethene	ug/L	5.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	122	223	11.2	76.3	189,000 (20,000)	13.3	3.08	1.19	< 1.00	
Vinyl Chloride	ug/L	2.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.84	< 1.00	1.18	3.64	< 1.00	
Xylenes, Total	ug/L	10,000	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	160	< 3.00	226	130	11.0	

## Notes:

ug/L = micrograms per liter

MCL = Environmental Protection Agency's Maximum Contaminant Level

Bold = Compound exceeds MCL

Total Extractable Petroleum Hydrocarbons are a sum of the three petroleum ranges: diesel, gasoline, motor oil

NS = No standard

Parentheses () = dilution factor. If ( ) not present, dilution factor is one

Prepared By: JSP

Checked By: JLJ

Reviewed By: APTM

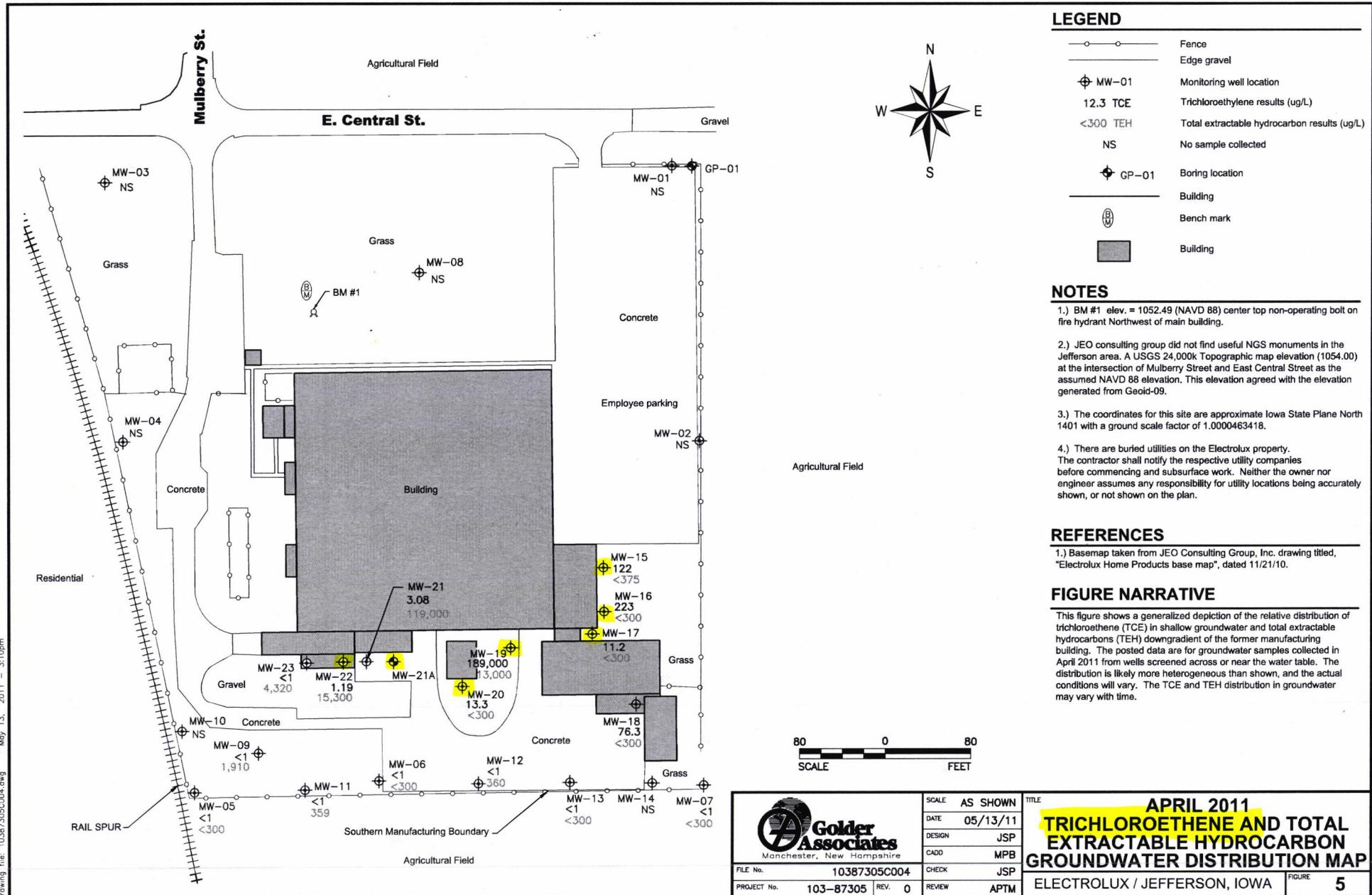


Table 2: Summary of Detected Contaminants in Groundwater

Location			MW-5	MW-6	MW-7	MW-9	MW-11	MW-12	MW-13	MW-15	MW-16	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	MW-23	
Contaminant	Unit	SWS																	
<b>TEH</b>																			
<b>Diesel</b>	ug/L	<b>1200*</b>	<300	<300	<300	<b>1,390*</b>	359	360	<300	<375	<300	<300	<300	<300	<b>36,000*</b>	<b>10,300*</b>	<b>3,120*</b>		
<b>Gasoline</b>	ug/L	No Standard	<300	<300	<300	<300	<300	<300	<300	<375	<300	<300	<300	13,000	<300	17,000	3760	763	
<b>Motor Oil</b>	ug/L	<b>400*</b>	<300	<300	<300	<b>514*</b>	<300	<300	<300	<375	<300	<300	<300	<300	<b>65,700*</b>	<b>1,240*</b>	<b>440*</b>		
<b>VOCs</b>																			
<b>1,1,1-Trichloroethane</b>	ug/L	<b>200</b>	<1.00	<1.00	3.61	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<b>4,590</b>	<1.00	<b>483</b>	90.3	<1.00	
<b>1,1,2-Trichloroethane</b>	ug/L	<b>5.00</b>	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<b>35.1</b>	<1.00	<1.00	<1.00	<1.00	
<b>1,1-Dichloroethane</b>	ug/L	<b>140</b>	<1.00	<1.00	5.22	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	3.01	85.0	<1.00	37.6	<b>292</b>	13.3	
<b>1,1-Dichloroethene</b>	ug/L	<b>7.00</b>	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<b>3,750</b>	<2.00	5.37	5.79	<2.00	
<b>1,2,4-Trimethylbenzene</b>	ug/L	350	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	285	246	31.9	
<b>1,2-Dichloroethane</b>	ug/L	<b>5.00</b>	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<b>8.91</b>	<1.00	<1.00	<1.00	<1.00	
<b>1,3,5-Trimethylbenzene</b>	ug/L	350	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	104	71.6	9.44	
<b>2-Butanone (MEK)</b>	ug/L	4000	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	25.6	<10.0	<10.0	
<b>Acetone</b>	ug/L	6300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	59.8	<10.0	<10.0	51.0	<10.0	<10.0	447	74.6	12.4	
<b>Benzene</b>	ug/L	5.00	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1.76	<0.50	<0.50	<0.50	<0.50	<0.50	
<b>Chloroethane</b>	ug/L	2800	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	7.51	112	104	
<b>Chloroform</b>	ug/L	80	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	4.03	<1.00	<1.00	<1.00	<1.00	<1.00	
<b>Chloromethane</b>	ug/L	30	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	11.7	<3.00	<3.00	<3.00	<3.00	<3.00	
<b>cis-1,2-Dichloroethene</b>	ug/L	<b>70</b>	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	4.52	17.3	2.30	39.9	<b>120</b>	<1.00	8.65	7.58	<1.00	
<b>Cymene</b>	ug/L	No Standard	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	12.0	8.55	<1.00	
<b>Ethylbenzene</b>	ug/L	700	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	33.0	<1.00	17.5	11.7	1.59		
<b>Isopropylbenzene (Cumene)</b>	ug/L	700	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	27.8	30.0	5.07	
<b>Naphthalene</b>	ug/L	100	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	38.4	36.8	5.80	
<b>n-Butylbenzene</b>	ug/L	2100	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	15.8	10.7	2.15	
<b>n-Propylbenzene</b>	ug/L	700	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	52.0	49.2	7.68	
<b>sec-Butylbenzene</b>	ug/L	No Standard	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	13.8	12.5	3.04	
<b>tert-Butylbenzene</b>	ug/L	No Standard	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	3.06	2.75	<1.00	
<b>Tetrachloroethene (PCE)</b>	ug/L	<b>5.00</b>	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	2.49	<1.00	<1.00	<b>548</b>	<1.00	2.22	1.94	<1.00		
<b>Toluene</b>	ug/L	1,000	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	41.1	<1.00	6.64	12.5	<1.00		
<b>trans-1,2-Dichloroethene</b>	ug/L	100	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	2.25	<1.00	<1.00	2.62	<1.00		
<b>Trichloroethene</b>	ug/L	<b>5.00</b>	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<b>122</b>	<b>223</b>	<b>11.2</b>	<b>76.3</b>	<b>189,000</b>	<b>13.3</b>	3.08	1.19	<1.00	
<b>Vinyl Chloride</b>	ug/L	<b>2.00</b>	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	1.84	<1.00	1.18	<b>3.64</b>	<1.00		
<b>Xylenes, Total</b>	ug/L	10,000	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	160	<3.00	226	130	11.0

BOLD Identifies contaminants above IDNR Statewide Standards for a Protected Groundwater Source or \*Iowa Tier 1 Look-Up Table, Groundwater Ingestion Actual

**Table 1: Summary of Detected Contaminants in Soil (Continued)**

**Table 1: Summary of Detected Contaminants in Soil (Continued)**

Location	Start Depth	End Depth	1,1-Dichloroethene (ug/kg)	1,2,3-Trichloropropene (ug/kg)	1,2,4-Trimethylbenzene (ug/kg)	1,2-Dichloroethane (ug/kg)	1,3,5-Trimethylbenzene (ug/kg)	4-Chlorotoluene (ug/kg)	Acetone (ug/kg)	Chloroethane (ug/kg)	cis-1,2-Dichloroethene (ug/kg)	Cymene (ug/kg)	Ethylbenzene (ug/kg)	Isopropylbenzene (ug/kg)	n-Butylbenzene (ug/kg)
SWS	(ft bgs)		380,000	440	3,800,000	34,000	3,800,000	1,500,000	68,000,000	30,000,000	760,000	No Standard	7,600,000	7,600,000	23,000,000
MW-10	2.5	5	<4.84	<4.84	<4.84	<4.84	<4.84	<4.84	<48.4	<19.4	<4.84	<4.84	<4.84	<4.84	<4.84
MW-11	2.5	5	<4.46	<4.46	<4.46	<4.46	<4.46	<4.46	<44.6	<17.8	<4.46	<4.46	<4.46	<4.46	<4.46
MW-12	1	5	<5.70	<5.70	<5.70	<5.70	<5.70	<5.70	<57.0	<22.8	<5.70	<5.70	<5.70	<5.70	<5.70
MW-13	2.5	5	<4.44	<4.44	<4.44	<4.44	<4.44	<4.44	<44.4	<17.7	<4.44	<4.44	<4.44	<4.44	<4.44
MW-14	2.5	5	<4.78	<4.78	<4.78	<4.78	<4.78	<4.78	<47.8	<19.1	<4.78	<4.78	<4.78	<4.78	<4.78
MW-15	0	2.5	<5.14	<5.14	<5.14	<5.14	<5.14	<5.14	54.3	<20.6	<5.14	<5.14	<5.14	<5.14	<5.14
	2.5	5	<4.85	<4.85	<4.85	<4.85	<4.85	<4.85	<48.5	<19.4	<4.85	<4.85	<4.85	<4.85	<4.85
	5	7.5	<4.98	<4.98	<4.98	<4.98	<4.98	<4.98	<49.8	<19.9	<4.98	<4.98	<4.98	<4.98	<4.98
	7.5	10	<4.88	<4.88	<4.88	<4.88	<4.88	<4.88	<48.8	<19.5	<4.88	<4.88	<4.88	<4.88	<4.88
	10	13	<4.62	<4.62	<4.62	<4.62	<4.62	<4.62	<46.2	<18.5	5.62	<4.62	<4.62	<4.62	<4.62
MW-16	0	2.5	<4.86	<4.86	<4.86	<4.86	<4.86	<4.86	<48.6	<19.4	<4.86	<4.86	<4.86	<4.86	<4.86
	2.5	5	<4.61	<4.61	<4.61	<4.61	<4.61	<4.61	<46.1	<18.5	<4.61	<4.61	<4.61	<4.61	<4.61
	5	7.5	<4.78	<4.78	<4.78	<4.78	<4.78	<4.78	<47.8	<19.1	<4.78	<4.78	<4.78	<4.78	<4.78
	7.5	10	<4.33	<4.33	<4.33	<4.33	<4.33	<4.33	<43.3	<17.3	<4.33	<4.33	<4.33	<4.33	<4.33
	10	13	<4.62	<4.62	<4.62	<4.62	<4.62	<4.62	<46.2	<18.5	18.1	<4.62	<4.62	<4.62	<4.62
MW-17	0	2.5	<4.74	<4.74	<4.74	<4.74	<4.74	<4.74	<4.74	55.3	<19.0	<4.74	<4.74	<4.74	<4.74
	2.5	5	<4.56	<4.56	<4.56	<4.56	<4.56	<4.56	<45.6	<18.2	<4.56	<4.56	<4.56	<4.56	<4.56
	5	7.5	<4.83	<4.83	<4.83	<4.83	<4.83	<4.83	<48.3	<19.3	<4.83	<4.83	<4.83	<4.83	<4.83
	7.5	10	<4.23	97.8	<4.23	<4.23	<4.23	<4.23	<42.3	<16.9	<4.23	<4.23	<4.23	<4.23	<4.23
	10	13	<4.34	<4.34	<4.34	<4.34	<4.34	<4.34	<43.4	<17.4	24.5	<4.34	<4.34	<4.34	<4.34
MW-18	0	2.5	<5.12	<5.12	<5.12	<5.12	<5.12	<5.12	88.0	<20.5	<5.12	<5.12	<5.12	<5.12	<5.12
	2.5	5	<4.87	<4.87	<4.87	<4.87	<4.87	<4.87	<48.7	<19.5	<4.87	<4.87	<4.87	<4.87	<4.87
	5	7.5	<4.82	<4.82	<4.82	<4.82	<4.82	<4.82	<48.2	<19.3	16.7	<4.82	<4.82	<4.82	<4.82
	7.5	10	<4.54	<4.54	<4.54	<4.54	<4.54	<4.54	<45.4	<18.2	39.2	<4.54	<4.54	<4.54	<4.54
	10	12	<5.05	<5.05	<5.05	<5.05	<5.05	<5.05	<50.5	<20.2	<5.05	<5.05	<5.05	<5.05	<5.05
MW-19	0	2.5	<5.78	<5.78	<5.78	<5.78	<5.78	<5.78	<57.8	<23.1	<5.78	<5.78	<5.78	<5.78	<5.78
	2.5	5	<4.41	<4.41	<4.41	<4.41	<4.41	<4.41	<44.1	<17.6	<4.41	<4.41	<4.41	<4.41	<4.41
	5	10	258	<4.43	<4.43	<4.43	<4.43	<4.43	<44.3	<17.7	6.08	<4.43	<4.43	<4.43	<4.43
	10	12	2,150	<4.50	<4.50	<4.50	6.79	<4.50	<45.0	<18.0	8.21	<4.50	19	<4.50	<4.50
	0	2.5	<5.07	<5.07	<5.07	<5.07	<5.07	<5.07	<5.07	182	<20.3	<5.07	<5.07	<5.07	<5.07
MW-20	2.5	5	<5.05	<5.05	<5.05	<5.05	<5.05	<5.05	<50.5	<20.2	<5.05	<5.05	<5.05	<5.05	<5.05
	5	7.5	<4.10	<4.10	<4.10	<4.10	<4.10	<4.10	<41.0	<16.4	<4.10	<4.10	<4.10	<4.10	<4.10
	7.5	10	<4.54	<4.54	<4.54	<4.54	<4.54	<4.54	<45.4	<18.2	<4.54	<4.54	<4.54	<4.54	<4.54
	0	2.5	<4.75	<4.75	32.2	<4.75	20.1	<4.75	53.6	<19.0	<4.75	<4.75	<4.75	<4.75	<4.75
	2.5	5	<5.33	<5.33	223	<5.33	140	<5.33	148	<21.3	<5.33	80.2	<5.33	11	40.5
MW-21	5	10	<5.25	<5.25	279	<5.25	120	10.9	<52.5	<21.0	<5.25	28.4	<5.25	22.3	53.3
	10	12	<4.38	<4.38	<4.38	<4.38	<4.38	<4.38	<43.8	<17.5	26.4	<4.38	<4.38	<4.38	<4.38
	0	2.5	<5.25	<5.25	12.6	<5.25	7.56	<5.25	<52.5	<21.0	<5.25	<5.25	<5.25	<5.25	<5.25
	2.5	5	<504	<504	8,810	<504	3,360	<504	<5,040	<2,020	<504	680	<504	746	1,980
	5	7.5	<447	<447	14,600	<447	5,060	<447	<4,470	<1,790	<447	1,260	<447	1,400	2,520
MW-22	7.5	10	<4.85	<4.85	9.78	<4.85									

Table 1: Summary of Detected Contaminants in Soil

Location	Start Depth	End Depth	TPH as Gasoline (mg/kg)	HEM, Oil & Grease, (mg/kg)	TEH Diesel (mg/kg)	TEH Gasoline (mg/kg)	TEH Motor Oil (mg/kg)	Barium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Arsenic (mg/kg)	Mercury (mg/kg)	1,1,1-Trichloroethane (ug/kg)	1,1,2,2-Tetrachloroethane (ug/kg)	1,1,2-Trichloroethane (ug/kg)	1,1-Dichloroethane (ug/kg)
SWS	(ft bgs)		No Standard	No Standard	3800*	No Standard	No Standard	15,000	97,000/210	400	17	23	150,000,000	15,000	54,000	15,000,000
MW-10	2.5	5	<10.0	170	<10.0	<10.0	<10.0	92.3	15.7	8.44	7.32	<0.0235	<4.84	<4.84	<4.84	
MW-11	2.5	5	<10.0	150	<10.0	<10.0	<10.0	90.1	16.4	<17.5	6.23	<0.0233	<4.46	<4.46	<4.46	
MW-12	1	5	<10.0	160	<10.0	<10.0	<10.0	56.8	10.5	7.52	6.27	<0.0255	<5.70	<5.70	<5.70	
MW-13	2.5	5	<10.0	150	<10.0	<10.0	<10.0	56.2	13.5	7.11	6.18	<0.0202	<4.44	<4.44	<4.44	
MW-14	2.5	5	<10.0	140	<10.0	<10.0	<10.0	91.7	15.6	8.42	6.26	<0.0230	<4.78	<4.78	<4.78	
MW-15	0	2.5	<10.0	320	<19.4	<19.4	<19.4	177	21.4	31.2	6.48	<0.0246	<5.14	<5.14	<5.14	
	2.5	5	<10.0	<580	<10.0	<10.0	<10.0	75.2	14.7	7.42	3.03	<0.0237	<4.85	<4.85	<4.85	
	5	7.5	<10.0	150	<10.0	<10.0	<10.0	50.5	14.4	6.62	6.80	<0.0239	<4.98	<4.98	<4.98	
	7.5	10	<10.0	<550	<10.0	<10.0	<10.0	79.5	14.1	<17.6	5.23	<0.0234	<4.88	<4.88	<4.88	
	10	13	<10.0	130	<10.0	<10.0	<10.0	88.8	14.6	7.83	3.64	<0.0232	<4.62	<4.62	<4.62	
MW-16	0	2.5	<10.0	<600	<10.0	<10.0	<10.0	138	19.2	8.51	8.56	0.0255	<4.86	<4.86	<4.86	
	2.5	5	<10.0	120	<10.0	<10.0	<10.0	108	17.8	8.16	6.84	0.0275	<4.61	<4.61	<4.61	
	5	7.5	<10.0	130	<10.0	<10.0	<10.0	59.5	14.5	7.47	4.15	<0.0233	<4.78	<4.78	<4.78	
	7.5	10	<10.0	110	<10.0	<10.0	<10.0	74.1	15.9	7.92	4.25	<0.0212	<4.33	<4.33	<4.33	
	10	13	<10.0	<570	<10.0	<10.0	<10.0	68.5	13.4	9.21	6.09	<0.0230	<4.62	<4.62	<4.62	
MW-17	0	2.5	<10.0	<530	49.6	<10.0	189	126	17.5	9.05	5.26	<0.0232	<4.74	<4.74	<4.74	
	2.5	5	<10.0	150	<10.0	<10.0	<10.0	81.1	15.1	<17.4	4.71	<0.0232	<4.56	<4.56	<4.56	
	5	7.5	<10.0	630	103	<10.0	215	75.3	13.9	9.83	9.50	<0.0235	<4.83	<4.83	<4.83	
	7.5	10	<10.0	1400	417	34.2	978	65.5	12.1	8.71	7.27	<0.0202	<4.23	<4.23	<4.23	
	10	13	<10.0	160	<10.0	<10.0	<10.0	138	14	<5.76	3.43	<0.0209	<4.34	<4.34	<4.34	
MW-18	0	2.5	<10.0	190	<10.0	<10.0	<10.0	138	20.4	6.45	5.31	<0.0241	<5.12	<5.12	<5.12	
	2.5	5	<10.0	220	<10.0	<10.0	<10.0	97.9	14.3	<17.2	4.79	<0.0229	<4.87	<4.87	<4.87	
	5	7.5	<10.0	760	<10.0	<10.0	<10.0	59.6	14.8	<28.8	4.69	<0.0230	<4.82	<4.82	<4.82	
	7.5	10	<10.0	610	<10.0	<10.0	<10.0	104	18.2	<5.78	3.56	<0.0209	<4.54	<4.54	<4.54	
	10	12	<10.0	290	<10.0	<10.0	<10.0	92.2	16.9	<5.68	4.23	<0.0227	<5.05	<5.05	<5.05	
MW-19	0	2.5	<10.0	360	<10.0	<10.0	<10.0	87.2	16.4	<17.3	6.39	<0.0231	<5.78	<5.78	<5.78	
	2.5	5	<10.0	310	<10.0	<10.0	<10.0	74.1	16.5	<5.74	5.39	<0.0229	<4.41	<4.41	<4.41	
	5	10	12.8	270	<10.0	<10.0	<10.0	58.5	16.7	<17.4	2.81	<0.0232	1,300	<4.43	<4.43	
	10	12	<10.0	450	<10.0	<10.0	<10.0	48.7	13.3	<17.3	2.68	<0.0230	5,870	<4.50	23.8	
	0	2.5	<10.0	430	<10.0	<10.0	<10.0	39.4	83.6	14.9	<5.73	8.76	0.0234	<5.07	<5.07	<5.07
MW-20	0	2.5	<10.0	330	<10.0	<10.0	<10.0	135	25.6	<18.7	<1.25	0.0270	<5.05	<5.05	<5.05	
	2.5	5	<10.0	310	<10.0	<10.0	<10.0	83.2	16.7	<5.80	6.15	<0.0232	<4.10	<4.10	<4.10	
	5	7.5	<10.0	320	<10.0	<10.0	<10.0	64.8	11.8	<5.75	5.37	<0.0230	<4.54	<4.54	<4.54	
	7.5	10	<10.0	430	<10.0	<10.0	<10.0	99.1	12.2	<6.08	3.74	0.0256	<5.33	<5.33	<5.33	
	0	2.5	10.5	360	29.1	<19.6	109	112	15.9	6.13	2.07	0.0262	<4.75	<4.75	<4.75	
MW-21	2.5	5	95.9	5,300	2,950	298	6,010	12,700	17.1	9.57	3.46	<0.0245	10.6	23.1	<5.25	
	5	10	138	19,000	6,150*	837	12,700	138	14.9	<17.2	6.03	<0.0207	<4.38	<4.38	10.6	
	10	12	15.3	180	21.2	10.4	73.8	105	14.9	<17.2	6.03	<0.0207	<4.38	<4.38	10.6	
	0	2.5	<10.0	310	<19.8	<19.8	<19.8	168	19.8	7.95	2.83	<0.0246	<5.25	<5.25	<5.25	
	2.5	5	181	10,000	1,390	407	4,150	285	18	<5.91	3.10	0.0283	<504	1,640	<504	
MW-21A	5	7.5	44.5	6,700	204	28.9	533	102	15.3	<5.98	4.42	<0.0239	<447	982	<447	
	7.5	10	11.0	200	<10.0	<10.0	14.8	74.6	14.4	<17.3	4.89	<0.0231	<4.85	<4.85	6.96	
	0	2.5	<10.0	1,800	151	<19.1	566	124	19.9	10.2	2.72	<0				

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